

I claim:

1 1. A system for presenting information regarding products and services via a
2 network of computers, the system comprising:
3 a plurality of market databases registered with a cooperative communications
4 network,
5 an analytical agent for mining data related to a selected item from at least one of
6 said plurality of market databases, said analytical agent further for generating a subset
7 of data that most closely meets a preprogrammed goal,
8 at least one of a seller's inter-agents in communication with said analytical agent
9 for receiving said subset of data,
10 said at least one of a seller's inter-agents for generating at least one showcase
11 database based on said subset of data responsive to a set of seller's sales objectives,
12 each showcase registered with a cooperative communications network, and
13 a user interface for displaying information derived from said showcase database.

1 2. The system of claim 1, wherein:
2 said plurality of market databases are commonly related to an industry.

1 3. The system of claim 1, wherein:
2 said mining data comprises constantly monitoring said plurality of market
3 databases, and generating an updated subset of data responsive to any change in said
4 market databases.

1 4. The system of claim 3, wherein:
2 said at least one seller's inter-agent regenerates said at least one showcase
3 database in response to said updated subset of data.

1 5. The system of claim 1, further comprising:
2 a plurality of showcase databases commonly related to an industry.

1 6. The system of claim 1, wherein:
2 said showcase databases are registered with a UDDI register.

1 7. The system of claim 6, wherein:
2 said showcase databases employ a common extensible markup language.

1 8. The system for presenting information regarding products and services of claim
2 1, further comprising:
3 at least one buyer's intelligent negotiation agent for receiving information from
4 said showcase database regarding said selected item.

1 9. The system for presenting information regarding products and services of claim
2 1, further comprising:
3 at least one buyer's commercial search agent for searching said at least one

4 showcase databases for information regarding said selected item.

1 10. The system for presenting information regarding products and services of claim
2 1, further comprising:

3 at least one buyer's intelligent negotiation agent, and

4 at least one intelligent seller's negotiation agent in communication with said at
5 least one buyer's intelligent negotiation agent,

6 wherein when said at least one buyer's intelligent negotiation agent requests a
7 bid for sale of said selected item, at least two of said seller's intelligent negotiation
8 agents submit that bid to said at least one buyer's intelligent negotiation agent.

1 11. The system for presenting information regarding products and services of claim
2 1, wherein:

3 said preprogrammed goal comprises a set of buyer's specifications for a
4 selected item, said item being one of a plurality of individual product items and
5 individual service items.

1 12. The system for presenting information regarding products and services of claim
2 1, wherein:

3 said preprogrammed goal comprises a set of seller's sales objectives.

1 13. The system for presenting information regarding products and services of claim

2 1, wherein:

3 said analysis is performed by selecting one of a plurality of evolutionary
4 computation resources.

1 14. The system for presenting information regarding products and services of claim

2 13, wherein:

3 said plurality of evolutionary computation resources comprises genetic
4 algorithms.

1 15. The system for presenting information regarding products and services of claim

2 13, wherein:

3 said plurality of evolutionary computation resources comprises genetic
4 programming.

1 16. The system for presenting information regarding products and services of claim

2 13, wherein:

3 said plurality of evolutionary computation resources comprises neural networks.

1 17. The system for presenting information regarding products and services of claim

2 1, wherein:

3 said analytical agent constantly monitors said market data and generates said
4 subset of data anew for any change in said market data,

5 said seller's inter-agent generates said showcase database responsive to any
6 change in said subset of data.

1 18. The system of claim 1, wherein:
2 said showcase database includes a discounted price for said selected item.

1 19. The system of claim 1, wherein:
2 said showcase database includes an option to upgrade features of said selected
3 item.

1 20. The system of claim 1, wherein:
2 said showcase database includes an option to include additional services
3 related to said selected item.

1 21. The system of claim 1, wherein:
2 said showcase database includes a quantity price discount for said selected
3 item.

1 22. The system of claim 1, wherein:
2 said showcase database includes financing for procurement of said selected
3 item.

1 23. The system of claim 1, wherein:
2 said showcase database includes warranties.

1 24. The system of claim 1, wherein:
2 said showcase database includes insurance.

1 25. The system of claim 1, wherein:
2 said showcase database includes a proximity marketing discount.

1 26. The system of claim 1, wherein:
2 said showcase database includes a yield management promotion.

1 27. The system of claim 1, further comprising:
2 a plurality of showcase databases registered with a cooperative communications
3 network for a common sales objective, and
4 each of said plurality of showcase databases having a data set dedicated to said
5 common sales objective.

1 28. The system of claim 17, wherein:
2 said showcase database comprises an object relational database.

1 29. A method for presenting information regarding products and services via a

2 network of computers, the method comprising:
3 identifying a selected item, said item comprising one of a product or service,
4 mining data related to said selected item from at least one of a plurality of market
5 databases, each of said market databases registered with a cooperative
6 communications network related to said selected item,
7 invoking an intelligent analytical agent to analyze said data against a
8 preprogrammed goal to generate a subset of data that most closely meets said goal,
9 receiving said subset of data,
10 generating a showcase database responsive to a set of seller's sales objectives,
11 and
12 displaying information derived from said showcase database on a user interface.

1 30. A method for creating a seller's showcase database which is accessible over a
2 network of computers, the method comprising:
3 obtaining market data related to a selected item from a market, said item being
4 one of a product item or service item,
5 analyzing said market data for conformity to a set of seller's sales objectives,
6 and
7 filtering said market data to create a seller showcase database reflecting the
8 most favorable terms for sale of said selected item by said seller given said market
9 data.

1 31. The method for creating a seller's showcase database of claim 30, further
2 comprising:
3 constantly updating said seller showcase database with each change in said
4 market data.

1 32. The method for creating a seller's showcase database of claim 12, further
2 comprising:
3 accessing said market data from at least one of a plurality of vendor databases
4 registered with a cooperative communications network,
5 mining said market data for conformity with a set of parameters related to said
6 item.

1 33. A system for configuring a seller's showcase in a distributed computing system,
2 the system comprising:
3 a plurality of seller showcase databases, said showcase databases
4 communicating in a distributed computing system,
5 at least one seller's intelligent inter-agent for receiving and analyzing market
6 data related to a selected item, said item comprising one of a product or service, said
7 inter-agent for generating a configured subset of data for transmission to one of said
8 plurality of showcase databases,
9 said one showcase database for receiving said configured subset of data.

1 34. The system for configuring a seller's showcase of claim 33, wherein:
2 said subset of data is filtered for inclusion in said showcase database by
3 selecting said data to optimally satisfy a set of seller's sales objectives.

1 35. The system of claim 33, wherein:
2 said inter-agent for reconfiguring said subset of data in response to any change
3 in market data and for transmission of said reconfigured subset of data to said
4 showcase database, and
5 said showcase for receiving said reconfigured subset of data.

1 36. The system for configuring a seller's showcase of claim 33, further comprising:
2 an analytical agent for mining said market data from a market, said analytical
3 agent in communication with said seller's intelligent inter-agent.

1 37. The system for configuring a seller's showcase of claim 33, further comprising:
2 said showcase database including at least one contract contingency authorizing
3 a seller to pay a buyer a penalty if said seller elects to sell said selected item to another
4 buyer.

1 38. The system for configuring a seller's showcase of claim 33, further comprising:
2 an analytical agent for mining said market data from a market, said analytical

3 agent in communication with at least one of said plurality of seller showcase databases.

1 39. A method for configuring a seller's showcase in a distributed computing system,
2 the method comprising:

3 receiving market data related to a selected item, said item comprising one of a
4 product item or service item,

5 instructing a seller's intelligent inter-agent to analyze said market data,

6 generating a configured subset of data based on said analysis, and

7 generating one of a plurality of seller's showcase databases, said showcase

8 database including said configured subset of data.

1 40. The method of claim 39, further comprising:

2 reconfiguring said subset of data in response to any change in market data,

3 transmitting said reconfigured subset of data to said showcase database, and

4 replacing said subset of data by with said reconfigured subset of data such that

5 said showcase database is updated in response to changes in market data.

1 41. A system for analysis of data, said data resident in a distributed computing

2 network of sellers' commercial databases, the system comprising:

3 at least one of a plurality of intelligent analytical agents, said analytical agent for

4 mining data related to a selected item from at least one of a plurality of market

5 databases, said item one of a product item or service item, and said analytical agent for

6 generating a subset of data that most closely meets a goal.

1 42. The system for analysis of data of claim 1, further comprising:
2 said analytical agent for generating a report on said subset of data.

1 43. The system for analysis of data of claim 1, further comprising:
2 said analytical agent for synthesizing said data to develop a specific entity
profile.

1 44. The system for analysis of claim 41, wherein:
2 said analysis is performed using case-based reasoning.

1 45. The system for analysis of claim 41, wherein:
2 said analysis is performed using rule-based reasoning.

1 46. The system for analysis of claim 41, wherein:
2 said analysis is performed using neural networks

1 47. [deleted]

1 48. The system for data analysis of claim 41, wherein:
2 said analysis is performed using genetic programming.

1 49. The system for analysis of data of claim 41, further comprising:
2 a suite of artificial intelligence program resources, said suite of resources
3 accessible by said intelligent analytical agent, and
4 wherein said analytical agent selects one of said plurality of artificial intelligence
5 resources for optimal performance of a computation.

50. The system for analysis of data of claim 49, wherein:
said suite of artificial intelligence program resources comprises genetic
programming.

51. The system for analysis of data of claim 49, wherein:
said suite of artificial intelligence program resources comprises genetic
algorithms.

52. The system for analysis of data of claim 49, wherein:
said suite of artificial intelligence program resources comprises neural networks.

53. A method for analyzing data resident in a distributed computing network of
sellers' commercial databases, the method comprising:
mining data related to a selected item from a distributed computing network of
sellers' commercial databases, and generating a subset of data that most closely meets

5 a goal.

1 54. The method for analyzing data of claim 53, further comprising:

2 generating a report on said subset of data.

1 55. The method for analyzing data of claim 53, further comprising:

synthesizing said data to develop a specific entity profile.

56. The method for analyzing data of claim 53, wherein:

said analysis is performed using neural networks.

57. [deleted]

1 58. The method for analyzing data of claim 53, wherein:

said analysis is performed using genetic programming.

1 59. The system for procurement of claim 1, wherein:

2 said at least one showcase database is configured according to item price.

1 60. The system for procurement of claim 1, wherein:

2 said at least one showcase database is configured according to item location.

1 61. The system for procurement of claim 1, wherein:

2 said at least one showcase database is configured according to item niche.

1 62. The system for procurement of claim 1, wherein:

2 said at least one showcase database is configured according to item availability.

1 63. The system for procurement of claim 1, wherein:

2 said at least one showcase database is configured according to availability of
items in bundles.

1 64. The system for procurement of claim 1, wherein:

2 said at least one showcase database is configured according to accountability of
seller.

1 65. The system for procurement of claim 1, wherein:

2 said at least one showcase database is configured according to seller

3 experience.

1 66. The system for procurement of claim 1, wherein:

2 said at least one showcase databases includes a contract contingency

3 authorizing a seller to pay a buyer a penalty if said seller elects to sell said selected

4 item to another than said buyer.

1 67. The system for procurement of claim 66, wherein:

2 said mining data comprises constantly monitoring said plurality of market
3 databases, and generating an updated subset of data responsive to any change in said
4 market databases.

5 68. A computer program product comprising a machine readable medium on which
6 is provided program instructions for performing a method for presenting information
7 regarding products and services via a network of computers using computers that
8 communicate over a network, the program instructions comprising:

9 program code for identifying a selected item, said item comprising one of a
10 product or service,

11 program code for mining data related to said selected item from at least one of a
12 plurality of market databases, each of said market databases registered with a
13 cooperative communications network related to said selected item,

14 program code for invoking an intelligent analytical agent to analyze said data
15 against a preprogrammed goal to generate a subset of data that most closely meets
16 said goal,

program code for receiving said subset of data,

program code for generating a showcase database responsive to a set of seller's
sales objectives, and

displaying information derived from said showcase database on a user interface.

1 69. A system for automated collaborative filtering using a computer that
2 communicates over a distributed network, the system comprising:
3 at least one seller's analytical agent,
4 at least one buyer's commercial search agent in communication with said seller's
5 analytical agent,
6 wherein, when said commercial search agent transmits to said at least one
7 seller's analytical agent a request by a buyer for information on a selected item, said
8 item one of a plurality of product items and service items, said seller's analytical agent
9 mines data related to said selected item from at least one of a plurality of market
10 databases, filters said data against a profile of said buyer to prepare a list of at least
11 one of a plurality of recommended items, and transmits to said buyer's commercial
12 search agent said list of recommended items.

1 70. The system of claim 69, wherein:
2 said filters said data comprises ranking each of said at least one of a plurality of
3 recommended items consistent with said buyer's profile.

1 71. The system of claim 69, wherein:
2 said filters said data comprises filtering by item type.

1 72. The system of claim 69, wherein:

2 said filters said data comprises filtering by item popularity.

1 73. The system of claim 69, wherein:

2 said filters said data comprises filtering by buyer's region.

1 74. The system of claim 69, wherein:

2 said filters said data comprises filtering by item quality.

1 75. The system of claim 69, wherein:

2 said filters said data comprises filtering by available services related to said
3 item.

1 76. The system of claim 69, wherein:

2 said filters said data comprises filtering by potential for combining said item with
3 other items to create a bundle.

1 77. The system of claim 69, wherein:

2 said filters said data comprises filtering by quantity of said items available.

1 78. The system of claim 69, wherein:

1 said filters said data comprises filtering by item price.

1 79. A method for automated collaborative filtering using computers that
2 communicate over a distributed network, the method comprising:
3 transmitting from an automated commercial search agent to said at least one
4 seller's analytical agent a request by a buyer for information on a selected item,
5 said selected item one of a plurality of individual product items and individual
6 service items,
7 said seller's analytical agent mining data related to said selected item from at
8 least one of a plurality of market databases,
9 said seller's analytical agent filtering said data against a profile of said buyer,
10 said seller's analytical agent preparing a list of at least one of a plurality of
11 recommended items, and
12 transmitting from said seller's analytical agent to said buyer's commercial
13 search agent said list of recommended items.

1 80. The method of claim 79, further comprising:
2 ranking each of said recommended items according to a buyer's profile.

1 81. The method of claim 79, further comprising:
2 filtering said data by item type.

1 82. The method of claim 79, further comprising:
2 filtering said data by item popularity.

1 83. The method of claim 79, further comprising:

2 filtering said data by buyer's region.

1 84. The method of claim 79, further comprising:

2 filtering said by item quality.

1 85. The method of claim 79, further comprising:

2 filtering said data by available services related to said item.

1 86. The method of claim 79, further comprising:

2 filtering said data by potential for combining said item with other items to create
3 a bundle.

1 87. The method of claim 79, further comprising:

2 filtering said data by quantity of said items available.

1 88. The method of claim 79, further comprising:

2 comprises filtering said data by item price.

1 89. The system of claim 1, further comprising:

2 a buyer's intelligent agent for receiving information regarding at least one

1 selected item from at least one of a plurality of seller's inter-agents and for sending
2 information regarding said selected item to said least one seller's inter-agents, said
3 selected item being one of a group of individual product items and individual service
4 items,
5 at least one buyer's input device in communication with said buyer's inter-agent,
6 said buyer's input device for identifying a list of at least two sellers of said selected
7 item,
8 said at least one of a plurality of seller's inter-agents for receiving information
9 regarding said selected item from said buyer's inter-agent and for sending information
10 regarding said selected item to said buyer's inter-agent, each of said plurality of sellers'
11 agents representing a seller of said selected item, and
12 wherein, when said list of sellers is received by said buyer's inter-agent, said
13 buyer's inter-agent and said seller's inter-agents representing said at least two sellers
14 engage in an exchange of information regarding said selected item.

1 90. The system for exchanging information of claim 89, wherein:

2 said at least one of a plurality of seller's intelligent agents comprises at least two
3 of said plurality of seller's intelligent agents.

1 91. The system for exchanging information of claim 89, wherein:

2 said buyer's inter-agent transmits a list of buyer's minimally acceptable
3 specifications to said seller's intelligent agents, and

4 said seller's intelligent agents transmit responses to said buyer's inter-agent
5 stating the availability of said selected item with said buyer's minimally acceptable
6 specifications from the sellers represented by said seller's intelligent agents.

1 92. The system for exchanging information of claim 91, wherein:

2 said at least one showcase database comprising said list of buyer's minimally
3 acceptable specifications.

1 93. A system for presenting information regarding products and services via a
2 network of computers, the system comprising:

3 a plurality of market databases,

4 at least one seller's inter-agent for mining data related to a selected item from at
5 least one of said plurality of market databases, said at least one seller's inter-agent

6 further for generating a subset of data that most closely meets a preprogrammed goal,

7 at least one showcase database in communication with said seller's inter-agent,

8 said at least one showcase database including said subset of data, said showcase

9 database further configured to satisfy a set of seller's sales objectives, and

10 a user interface in communication with said showcase database for displaying

11 information derived from said showcase database.

1 94. The system of claim 93, wherein:

2 said at least one showcase database comprises a plurality of showcase

1 databases,
2 the system further comprising a cooperative communications network including
3 said plurality of showcase databases, said plurality of showcase databases commonly
4 related to an industry.

1 95. The system of claim 1, wherein:
2 said at least one showcase database comprises a plurality of showcase
3 databases,
4 the system further comprising a cooperative communications network including
5 said plurality of showcase databases, said plurality of showcase databases commonly
6 related to an industry.